

## **Translation of relevant parts**

### **DE 31 30 315 C2    Seat, in particular vehicle seat with adjustable backrest**

In a seat, in particular a vehicle seat with an adjustable backrest, hinges arranged on both sides are connected to the seat part, each hinge having two hinge parts which can be moved towards one another, are connected to one another via a pivot axis, and are engaged with one another via an adjusting and fixing device which is designed as a gear mechanism and determines the position of the two hinge parts relative to one another. In order to keep the hinges arranged on both longitudinal sides of the seat free from constraining forces and to fasten the bearing points of their adjusting and fixing device precisely in an aligned position, the hinge parts of both hinges connected to the same part of the seat as those connected to the backrest are connected to one another fixedly against rotation via a tubular support arranged concentrically relative to the pivot axes.

### **G 91 00 575.2        Device for controlling the target value of the height of a seat**

The invention relates to a device (R, HRH, HRT, STH, STT) for controlling the target value (AS\*) of the height of a seat, in particular of a vehicle seat (SI, FL, SL), which comprises means (SV) for regulating the seat height. The means (SV) comprise at least one sensor element (S) and a detection unit (AT) effecting said at least one sensor element (S). The sensor element (S) comprises a sensor area (SF) which serves to detect the present, relative position of the sensor element (S) and the detection unit (AT) thereby detecting the actual value (AS) of the seat height (SE).

### **G 94 16 933.0        Device for detecting occupation of a motor vehicle seat**

The invention relates to a device for detecting occupation of a motor vehicle seat with a roll (1) which is supported on the vehicle chassis, an elastically deformable body (2, 6) that is positioned between the outer circumference of the roll (1) and its support on the vehicle chassis, a part (3) movable through occupation of the vehicle seat which over the whole range of movement of the seat is positioned such at the outer circumference of the roll (1) that movement of the movable part (3) caused by occupation of the vehicle seat causes elastic deformation of the elastically deformable body (2, 6), and a converter (7, 8) that generates an electric signal from the elastic deformation of the elastically deformable body (2, 6).

**DE 44 06 897 C1 Arrangement for detecting occupation of motor vehicle seats**

The arrangement has a seat (1) occupation sensor (3) built into a seat cushion and a corresponding evaluation circuit. The sensor is divided into forward and rear sensing regions (3.1, 3.2) responsive to seat loading in the corresponding seat cushion regions. Both sensing regions can be evaluated separately with respect to their load state. When a seat load is predominantly detected in the forward region, the evaluation circuit generates a warning signal, esp. an audible or visible warning, and a control signal which makes it more difficult to trigger the air bag or blocks triggering.

**DE 44 42 841 C2 Seat occupant detection and restraint system for automobile**

The system uses a weight sensor and a seat inclination sensor. The detected weight differs from the actual weight of a seat occupant, the detected seat inclination providing a characteristic affecting the difference between the actual and the detected weight, used together with the detected weight to calculate the true weight of the seat occupant, for corresponding control of an inflatable air-bag (26). Preferably, the air bag inflation device is controlled by a microprocessor (36) receiving the signals from the weight and seat inclination sensors and from a further vehicle impact sensor, allowing the air-bag to be inflated in an accident with sufficient pressure to restrain the seat occupant.

**DE 196 30 325 C2 Power seat adjusting apparatus**

Output reduced by a reduction mechanism A contained within a tube type motor body (5) is transmitted to a threaded shaft (13), and a nut (15) having a wing element (15a) for transforming rotation of the threaded shaft (13) to propulsion is threadingly engaged with the threaded shaft (13). Then, reduction and boost is made between a linear groove (16a) of a guide member (16) secured to an inner wall of the body (5) and the rotation is transmitted to the body (5) by this rotational force, thereby an arm (17) provided on the body (5) is swung so that a base (3) is adjusted upwardly and downwardly about bearing members (2, 2a) mounted on slide rails (1, 1a). Owing to this arrangement, since a smaller installation space can be achieved, the apparatus can be made small in size and commonly used for various types of automotive vehicles. Moreover, the apparatus can be unitized. In addition, a high torque transmission is made possible by reduction and boost.

**DE 196 02 089 C2 Safety system sensor for motor vehicle seat**

The sensor has a seat load sensor installed in the foam (12) of a vehicle seat. The foam encloses a deformable detector (22') which, through loading of the seat undergoes an alteration in its length. The detector is connected to a sensing circuit. The deformable sensor has at least two sides (24, 26) which can move in two different directions during loading of the seat. The two overlapping sides (24, 26) can have a concave curvature.

**DE 196 23 839 C2 Height-adjustable vehicle seat with seat occupancy sensor**

The seat has a height adjuster as well as the seat occupancy sensor. The seat adjuster has a drive motor (1) and a transmission coupled to the drive motor on one side and via a drive shaft (7) to a height adjustable seat element (3) on the other. The seat occupancy sensing arrangement contains a detector element (11) mechanically coupled to the transmission via the transmission drive shaft and a sensor element (12) which monitors its position.

**DE 200 12 950 U1 Vehicle seat weight measuring device**

A device is provided for measuring the weight of a vehicle seat and the weight of a person sitting on the vehicle seat. The device is equipped with a load sensor for converting at least a part of the seat weight to an electric signal, and a deviation/deflection absorbing mechanism which has a pin bracket and a pin and is provided between the seat and the load sensor. The deviation amount that can be absorbed by this absorbing mechanism is a fixed value